

IN THE CLAIMS

Please amend claims 1-7 and add claims 8-13 as follows:

- B 10 Sub C1
1. A method for instantiating project models as instances of a process model to which they conform comprising

supporting the work of the process by rendering said process models as elements of a computer-based system, and

supporting the work of the process by rendering said project models as elements of a computer-based system.
 2. A computer implemented method for modeling work processes comprising

instantiating a plurality of objects by abstract or concrete classes, and including at least a decision class and a data class,

relating each decision object to one or more data objects which it produces,

requiring, for at least one decision object, at least one data object as a prerequisite to its activation or completion, and

optionally generating additional subclasses or instances of said decision and data classes.
 3. The method of claim 2 further comprising relating an arc or link class linking a first decision with a second decision.
 4. The method of claim 2 further comprising

generating a decision role class specialized into at least two subclasses, each with differing behaviors, and

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defining for each decision role class the communication requirements among the incumbents of roles participating in a decision, the rights of each such role class incumbents with respect to (a) entering data elements in a database, (b) modifying elements in a database and/or (c) reading elements from a database

5. A computer implemented method for traversing networks including nodes and directed arcs comprising
utilizing messaging between said nodes and arcs and collections of said arcs, and
determining the membership of said collections by at least one of their entry nodes and exit nodes.

6. A computer implemented method of modeling and managing work processes among a plurality of participants comprising
using a network whose nodes are abstract decision situations, and
providing arcs directed by decisions based on logical precedence.

7. The method of claim 6 further comprising
requiring nodes to support participation of multiple persons in differentiated roles.

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8. The method of claim 7, further comprising
requiring that incumbents of exactly one differentiated role make a choice modeled by an abstract decision situation, and

requiring that the incumbents of a second differentiated role have notice, elapsed time and access to the incumbent of the first role prior to the incumbent of said first role having made said choice,

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requiring that the incumbents of a third differentiated role have the opportunity to inspect the results of the choice made by the incumbent of the first role after said choice, and to accept or reject said results, with or without reference to established criteria, and

requiring that the incumbents of a fourth differentiated role have timely notice of the results of the choice made by the incumbent of the first role after said choice.

9. The method of claim 8, further comprising

requiring that the incumbents of a fifth differentiated role have the opportunity to inspect the results of the choice made by the incumbent of the first role after said choice, and to accept or reject said results according to its conformance or non-conformance to established criteria.

10. The method of claim 1, further comprising

using said process models to instantiate project models, and
using said process and project models to manage, direct, and control the work of the process.

11. The method of claim 2 further comprising

providing an abstract rule class as a subclass of the data class,
providing that said abstract rule class is specialized into concrete classes that include at least a class each of whose instances completely determine the result by choosing the value of its associated decision's data object, and

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providing none or more additional concrete rule classes whose instances (i) determine the associated decision objects' requirement for some other specific data object, (ii) determine the associated decision objects' association with a specific role object, (iii) determine the incumbent of a specific role object associated decision's data object, and/or (iv) determine the use of a different role object associated with said decision object.

12. A computer implemented method for instantiating project models as instances of a process model to which they conform comprising

providing an extensible, object-oriented framework for modeling processes, and

providing abstract and concrete classes as elements of said framework, whose objects map plural participants in the process.

13. A computer implemented method for traversing networks including nodes and directed arcs connecting said nodes comprising

initializing all direct arcs and arc collections with an inactive state,

activating an entry collection of directed arcs which share a common entry node upon completion of the entry node's function,

activating all members of said entry collection upon activation of said entry collection,

activating an exit collection of directed arcs which share a common exit node upon activation of any member of said exit collection, and